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IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

GUBA SAYDA SUBMARINE BASE

GUBA SAYDA, USSR

Declass Review by NIMA/DOD

CIA/PIR 77067

DATE September 1966

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PAGES 6

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GUBA SAYDA SUBMARINE BASE

GUBA SAYDA, USSR

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FACILITY : GUBA SAYDA SUBMARINE BASE
LOCATION : GUBA SAYDA, USSR
GEO COORDS: 69-15N 033-21E

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KEY TO ANNOTATIONS

1. "H-I" Class SSBN (visible waterline length approx 360'*).
The hull shape, size, and large sail confirm this submarine to be of the "H" Class. The measurements obtained for the sail and the distance from the bow to the sail as well as the obvious cleavages between the missile tube canopies confirm this submarine to be of the type I. This excellent quality photography provided two features not noted in previous "H" Class sightings. These are: (1) two white spots located just forward of the forward emergency telephone buoy; and (2) an apparent white line (lateral obstruction warning line) approximately ten feet aft of the after emergency telephone buoy. The two white spots equate favorably in appearance and location to the "circular indentations" seen on the "E-II" Class SSBN (see NAVRECONTECHSUPPCEN 113/66-S, "USSR Nuclear Submarine Scale Drawings").
2. "H-II" Class SSBN (visible waterline length approx 365'*).
This submarine also has the hull shape and large sail characteristic of "H" Class submarines. However, when proportioned, the resultant percentages coincided with those of the type II. The two white spots (possible "circular indentations") discussed in annotation 1 above, are also present on this submarine as is the white line (lateral obstruction warning line) near the stern. All three missile canopies are opened to port exposing the tubes. No interpretable imagery is discernable within the exposed tubes. It is interesting to note that this submarine is painted a light tone and the submarine at annotation 1 above is very dark in tone.

Although both the "H-I" and "H-II" seen on this coverage appear to have a waterline length of approximately 365 feet it is believed that their actual length overall is approximately 380 feet. In performing a proportional analysis of each ship a discrepancy appeared in the proportion at the stern of both submarines. This discrepancy does not appear when proportioning an "H" Class unit, either type I or type II, where the vertical stern fin is clearly visible which is not the case

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on this coverage. An "H-II" Class SSBN was observed at Guba Litsa (see Figure 2) on [] with the vertical stern fin (and the shadow cast by the fin) imaged exceptionally well. Conditions at Guba Litsa which aided in the identification of the vertical fin were excellent image quality, stereo, good lighting (sun angle perpendicular to the length of the submarine), and light-toned water.

In those instances where the stern fin is defined it is usually the shadow of the fin that is visible. It is also quite possible that the trim of the submarine at the time it is photographed is a factor in whether or not the vertical fin would be visible. All of the factors and conditions discussed support the conclusion that unless the stern fin is clearly visible it is likely that the discrepancy encountered in the sterns of the "H" Class units at annotations 1 and 2 above will cause the waterline length to appear approximately 15 feet shorter than it actually is.

Figure 2 of this report provides a proportional analysis of "H-II" Class SSBN from [] photography. Two "H" Class SSBN were observed on the previous mission in this area of the base. See annotations 12 and 13, []

3. Large floating crane.
4. KHOBI Class AO (LOA approx 220').
See annotation 11, []
5. "K-I" Class OSS (visible waterline length approx 320') berthed outboard a BOLVA Class APL.
Uniquely configured bow and stern as well as the approximate length confirm this identification. The configuration of the sail suggests that this submarine may be one of the "K-I" Class SS in the Northern Fleet that has been altered to perform some unknown auxiliary function. See annotation 10, []
6. BOLVA Class APL (LOA approx [])
See annotation 9, []
7. "PM-124" Class YRSN (visible LOA approx 300'*) berthed across the pier from the BOLVA Class APL.
The two hatches forward, large "A" frame just forward of the amidships superstructure, fore and aft cranes, and lifeboat placement confirm this identification. Probable stern overhang is hidden in shadow. See annotation 8, []

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8. DUNA Class YR - Floating Workshop (LOA approx 155').
The bridge, two stacks, and the single lifeboat in a line are all characteristic of the DUNA Class YR.
9. OSKOL Class ASL/AR (LOA approx 295'*).
This vessel is not the armed version. See annotation 7, [] A stripped-down possible "P-6" Class PT is located just off the starboard bow of the OSKOL.
10. Unidentified auxiliary (LOA approx [] moored inboard a "G" Class SSB. This vessel is apparently unarmed. Its absence in the available recognition publications suggests it may be a new class or modification. Although its exact function could not be determined from this photography its association with "G" Class SSB units suggest it may be an ASL, AEM, or AR. See annotation 5, []
11. "G" Class SSB (visible waterline length approx 320').
See annotation 4, []
12. "G" Class SSB (visible waterline length approx 320').
All three missile canopies are open. Missile support arms are in the extended position over the first and third missile tubes.
13. "G" Class SSB (visible waterline length approx 320').
This submarine has all three missile canopies open to port.
14. Two DVINA Class YR (LOA of each approx 295').
All topside detail corresponds exactly with the photography of a unit of this class Floating Workshop as it made the Northern Sea Route transfer [] The length overall differs by approximately 35' from the length published for this class in PC-230/2-1, NAVAL SHIPS OF THE USSR. See annotation 3, []
15. "G" Class SSB (visible waterline length approx 320').
This submarine has all three missile canopies open to port. See annotation 2, []
16. "G" Class SSB (visible waterline length approx 320').
See annotation 1, []

NOTE: All measurements followed by an asterisk (*) have been made by the NPIC Technical Intelligence Division and are considered accurate to within two feet or two percent, whichever is greater.

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REFERENCE

DOCUMENT

NAVRECONTECHSUPPCEN 113/66-S, USSR Submarine Scale Drawings, January 1966 (SECRET)

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DIA. PC 230/2-1, Naval Ships of the USSR, January 1964 (SECRET)

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GUBA SAYDA SUBMARINE BASE
GUBA SAYDA, USSR
69-15N 033-21E

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FIGURE 1

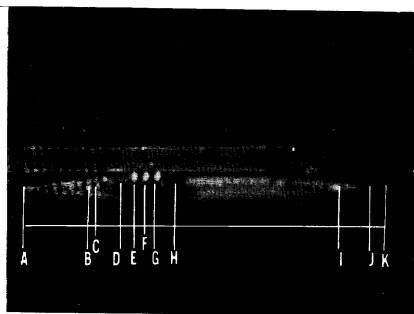
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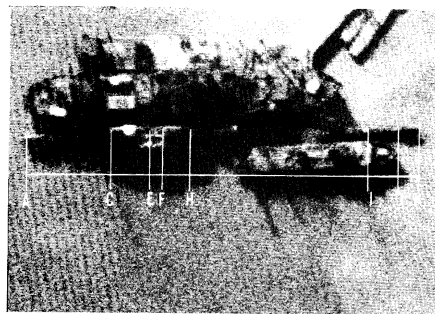
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PROPORTIONAL ANALYSIS
OF
TWO "H-II" CLASS SSBN



"H-II" CLASS SSBN
GUBA SAYDA, USSR--
STERN FIN NOT VISIBLE

NOTE---FOR REASONS OF ORIENTATION
THIS IMAGERY IS PURPOSELY RE-
VERSED. THIS EFFECT CAUSES THE
CANOPIES TO APPEAR TO OPEN TO
STARBOARD.



"H-II" CLASS SSBN
GUBA LITSA, USSR--
STERN FIN VISIBLE

NOTE: THE TWO GRAPHICS ABOVE ARE NOT
TO PRECISE SCALE.

ITEM

PERCENTAGE OF THE TOTAL
LENGTH--FROM THE BOW

A. BOW.....	0
B. FWD EMER TEL BUOY.....	18
C. FWD EDGE OF SAIL (TOP).....	21
D. BRIDGE AREA.....	28
E. CENTER FWD MISSILE TUBE.....	32
F. CENTER NO.2 MISSILE TUBE.....	34
G. CENTER AFT MISSILE TUBE.....	36
H. AFT EDGE OF SAIL (TOP).....	42
I. AFT EMER TEL BUOY.....	85
J. FWD EDGE OF STERN FIN (APPARENT STERN WHEN LESS THAN OPTIMUM CONDITIONS EXIST).....	95
K. STERN.....	100

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FIGURE 2

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